

CLAIMS

What is claimed is:

- 1 1. A system for testing JMX monitors, the system comprising:
 - 2 (a) a generator adapted to generate a signal;
 - 3 (b) a monitor adapted to monitor the signal; and
 - 4 (c) a notifier adapted to generate a notification in response to the
 - 5 monitoring of the signal by the monitor.

- 1 2. A system according to claim 1, further comprising a listener for
- 2 receiving the notification.

- 1 3. A system according to claim 1, further comprising an interface
- 2 adapted to allow entry of at least one parameter to be used in
- 3 generating the signal.

- 1 4. A system according to claim 1, further comprising a source of at
- 2 least one equation to be used in generating the signal.

- 1 5. A system according to claim 3, wherein said source is selected from
- 2 the group consisting of data libraries, data files, application code, or
- 3 user entry.

1 6. A system according to claim 1, further comprising a timer, adapted
2 to control the time for testing.

1 7. A system according to claim 1, wherein the monitor monitors the
2 signal at a frequency at least twice the frequency of the signal.

1 8. A system according to claim 1, further comprising a processor
2 adapted to execute the generation of the signal.

1 9. A signal generator comprising:
2 (a) a generator MBean adapted to generate a signal; and
3 (b) a library of equations for use in the generator MBean, each
4 equation representing a signal capable of being generated by the
5 generator MBean.

1 10. A signal generator according to claim 8, further comprising an
2 interface adapted to allow selection of an equation from the library
3 to be used in generating the signal.

1 11. A signal generator according to claim 9, wherein the interface is
2 further adapted to allow entry of at least one parameter to be used
3 in the equation.

1 12. A system according to claim 8, further comprising a timer java bean,
2 adapted to control the time for generation of the signal.

1 13. A method for generating a signal, the method comprising the steps
2 of:

3 (a) selecting an equation from a library, the equation corresponding
4 to the signal to be generated;
5 (b) specifying the appropriate parameters for the equation; and
6 (c) generating a signal corresponding to the equation with the
7 parameters using a generator MBean.

1 14. A method according to claim 12, further comprising the step of
2 specifying the length of time for generation of the signal.

1 15. A method for testing a JMX monitor, the method comprising the
2 steps of:
3 (a) generating a signal using a generator MBean;

4 (b) polling the generator bean at a frequency at least twice the
5 frequency of the generated signal using a monitor MBean of the JMX
6 monitor; and

7 (c) returning a testing value for each polling of the generator MBean.

1 16. A method according to claim 15, further comprising the step of
2 generating a notification when a threshold value of the testing signal
3 is detected by the monitor.

1 17. A method according to claim 15, further comprising the step of
2 storing the testing values to a data store.

1 18. A method according to claim 15, further comprising the step of
2 comparing each testing value to the corresponding value of the
3 signal from the generator MBean.

1 19. A method according to claim 15, further comprising the step of
2 specifying an equation to be used in generating the signal.

- 1 20. A method according to claim 15, further comprising the step of
- 2 specifying at least one parameter to be used in generating the
- 3 signal.

- 1 21. A method according to claim 15, further comprising the step of
- 2 specifying the frequency of polling.

- 1 22. A computer-readable medium, comprising:
 - 2 (a) means for selecting an equation from a library, the equation
 - 3 corresponding to a signal to be generated;
 - 4 (b) means for specifying parameters for the equation; and
 - 5 (c) means for generating a signal corresponding to the equation,
 - 6 with the parameters, using a generator MBean.

- 1 23. A computer program product for execution by a server computer for
- 2 testing a JMX monitor, comprising:
 - 3 (a) computer code for selecting an equation from a library, the
 - 4 equation corresponding to a signal to be generated;
 - 5 (b) computer code for specifying parameters for the equation; and
 - 6 (c) computer code for generating a signal corresponding to the
 - 7 equation, with the parameters, using a generator MBean.

1 24. A system for testing a JMX monitor, comprising:

2 (a) means for selecting an equation from a library, the equation
3 corresponding to a signal to be generated;

4 (b) means for specifying parameters for the equation; and

5 (c) means for generating a signal corresponding to the equation,
6 with the parameters, using a generator MBean.

1 25. A computer system comprising:

2 a processor;

3 object code executed by said processor, said object code configured
4 to:

4 to:

5 (a) select an equation from a library, the equation
6 corresponding to a signal to be generated;

7 (b) specify parameters for the equation; and

8 (c) generate a signal corresponding to the equation, with the
9 parameters, using a generator MBean.